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THE INSECT PEST SURVEY  
BULLETIN

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Volume 21

Supplement No. 6

August 15, 1941

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BUREAU OF  
ENTOMOLOGY AND PLANT QUARANTINE  
UNITED STATES  
DEPARTMENT OF AGRICULTURE  
AND  
THE STATE ENTOMOLOGICAL  
AGENCIES COOPERATING



I N S E C T P E S T S U R V E Y B U L L E T I N

Vol. 21

Supplement to Number 6

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HESSIAN FLY SURVEY AT HARVESTTIME 1941

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Field surveys made by the Bureau of Entomology and Plant Quarantine laboratories at Manhattan, Kans., La Fayette, Ind., and Carlisle, Pa., and by the State agricultural experiment stations of Illinois, Ohio, Kentucky, Missouri, and Nebraska indicate that Hessian fly infestations are low in wheatfields throughout eastern, north-central, and western Pennsylvania, eastern Maryland, Delaware, northwestern and northeastern Virginia, north-eastern Ohio, southwestern Michigan, northern Indiana, southwestern and south-central Nebraska, northwestern Kansas, and northern Oklahoma. There are, however, menacing populations of flies in local fields and areas in most of these regions.

Hessian fly infestations range from low to moderate in south-central Pennsylvania, western Maryland, north-central North Carolina, northwestern, east-central, and southeastern Missouri; moderate to heavy in southern Virginia, western and central Ohio, southeastern Michigan, central and southern Indiana, eastern and southern Illinois, eastern Kentucky, west-central and eastern Tennessee, northeastern and west-central Missouri, north-central and south-central Kansas; and heavy infestations in western Kentucky, southwestern Missouri, southeastern Nebraska, northeastern and southeastern Kansas. General examinations and observations by State entomologists in Iowa and Illinois indicate that Hessian fly may be found moderately to fairly heavy in the counties where winter wheat is grown in the States. Rigid observance of the safe-seeding dates is advised in the major winter Wheat Belt due to the wide spread and general increase of the fly this year.

The data summarized in the following table, and the accompanying map, indicate more fully the regions covered by the survey and the general trend of fly infestations. A field sample in the survey usually consisted of 50 wheat stems.

Hessian fly survey at harvesttime 1941

Area	Fields		Stems infested		
	sampled	Number	Average	Maximum	Minimum
			Percent	Percent	Percent
Nebraska:1/	:	:	:	:	:
Southwestern-----	:	23	1	2	0
South-central-----	:	25	5	20	0
Southeastern-----	:	40	33	100	0
	:	:	:	:	:
Kansas:	:	:	:	:	:
Northwestern-----	:	10	3	6	0
North-central-----	:	38	15	78	0
Northeastern-----	:	44	29	88	0
South-central-----	:	32	15	96	0
Southeastern-----	:	29	23	72	2
	:	:	:	:	:
Oklahoma:	:	:	:	:	:
Northwestern-----	:	8	0	0	0
North-central-----	:	33	1	8	0
Northeastern-----	:	37	3	18	0
	:	:	:	:	:
Missouri:1/	:	:	:	:	:
Northwestern-----	:	19	10	26	0
West-central-----	:	29	13	34	0
Southwestern-----	:	24	30	76	0
Northeastern-----	:	28	16	86	0
East-central-----	:	20	11	26	0
Southeastern-----	:	12	8	54	0
	:	:	:	:	:
Illinois:1/	:	:	:	:	:
Eastern and southern-----	:	74	17	74	0
	:	:	:	:	:
Michigan:	:	:	:	:	:
Southwestern-----	:	32	3	10	0
Southeastern-----	:	39	18	50	2
	:	:	:	:	:
Indiana:	:	:	:	:	:
Northern-----	:	138	7	34	0
Central and southern-----	:	218	17	74	0
	:	:	:	:	:
Ohio:1/	:	:	:	:	:
Western and central-----	:	-	14	-	-
Northeastern-----	:	-	4	-	-
	:	:	:	:	:
Kentucky:1/	:	:	:	:	:
Western-----	:	17	26	44	10
Eastern-----	:	28	17	52	0

Hessian fly survey at harvesttime 1941.--Continued

Area	Fields		Stems infested		
	sampled		Average	Maximum	Minimum
	Number	Percent	Percent	Percent	Percent
Tennessee:	:	:	:	:	:
West-central-----:	36	:	16	70	2
Eastern-----:	52	:	15	50	4
:	:	:	:	:	:
Pennsylvania:	:	:	:	:	:
Eastern-----:	29	:	7	20	0
North-central-----:	22	:	6	22	0
South-central-----:	35	:	11	80	0
Western-----:	15	:	2	8	0
:	:	:	:	:	:
Delaware-----:	10	:	3	10	0
:	:	:	:	:	:
Maryland:	:	:	:	:	:
Eastern-----:	15	:	3	16	0
Western-----:	25	:	12	56	0
:	:	:	:	:	:
Virginia:	:	:	:	:	:
Northeastern-----:	40	:	5	26	0
Northwestern-----:	20	:	7	20	0
Southern-----:	15	:	16	50	0
:	:	:	:	:	:
North Carolina:	:	:	:	:	:
North-central-----:	40	:	8	44	0

1/ Data obtained partly or mostly by State entomologists.



HESSIAN FLY SURVEY AT HARVESTTIME 1941.

Numbers indicate percentage of stems infested. Gross-hatching indicates from moderate to severe infestation.



